## Office Memorandum · united states government

ro :	The Files	DATE: 11-September 1956	25X <sup>2</sup>
ROM :			25X
SUBJECT:	Trip and Prog	ress Report, Contract RD-91-SA, Marine Crystal Video	
to determent the need	mine the status for a proposal	pust 1956, I visited the Plant in Philadelphia of the Marine Crystal Video program and to confirm leading to the development of 250 special presentated were:	25X1
			25 <b>X</b> 1
in the M	f investigation	with an earlier request has done a certain for inclusion Several methods have been tried, but none with any the sensistivities were no better than approximately	25X1 25X1
minus 25	to minus 30 dk using rather o	pointed out the sensistivities were crude laboratory measurements and that the results eased by optimising for the particular crystal in	25 <b>X</b> 1
service. The people were quite concerned with the fact that we have not yet approved the over-run cost on the basic project and I again			25 <b>X</b> 1
emphasiz	ed that we urge	ently needed the proposal for the are willing to approve any further project costs.  tly had the desired effect, as they assured me that	25 <b>X</b> 1
	osal for the	would be in our hands in the very near	25 <b>X</b> 1
assemble	he first protot d and the techi	laboratory where assembly work is underway in protype. All of the necessary component boards have been nicians are assembling the console cabinet and essary cable harnesses.	
antenna antennas system h two low are stil	have been fab: as been instal: frequency anter l quite large; assed dipoles.	to determine the status of the m. The work on this is essentially complete. All ricated and associated filters and the calibration led in the radome housing all this material. The mass covering the range of from 50 to 400 megacycles physically. The unit is of an open frame construction The maximum distance from the forward to the rear The height of the entire unit is 5 feet and is so	25X1



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calibration equipment will fit on top of this frame to make a structure 9 feet high. has already constructed a turn-table on which this entire unit will be mounted, so that complete system tests can be run. It is expected that these tests will begin sometime early in September.	25X1
5. Back at the Plant, I discussed the problem of the pre- amplifier units with . The only parts of our exceptions to which there was any particular question concerned the use of	25X1 25X1
the micro-pin connectors for the transistors and the provision of capabilities. pointed out that the Corporation had used miniature sockets of various configurations for awhile, but in	25X1 25X1
general, had found them unsatisfactory and, therefore, had dispensed with the use of them entirely. He admitted, however, they had not used the micro-pin socket. They agreed to purchase a number of these units and conduct tests upon them. If the results proved to be satisfactory they would consider incorporating these in the pre-amplifier. If they proved to be unsatisfactory from the standpoint of noise generation or mechanical strength, then they would use their regular assembly technique. The problem of was discussed at some length. I pointed out that the unit would be virtually useless to us unless it has this capability. pointed out that some form of a chopper would probably suffice, at some loss of sensistivity and would further be consistent with the size package in which the system is to be mounted. I stressed the urgency in getting such a proposal in to us as the need for such a device is becoming more urgent. I was assured that the proposals would be forwarded to us before the end of the month.	25X1 25 <b>X</b> 1
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